

Treating substrates comprises treating with dispersion of photocatalytic particles and then with siliconized compounds selected from siliconates and polyorganosiloxanes

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Abstract

Treating a substrate comprises dispersion of photocatalytic particles, then treating the substrate with at least a siliconized compound. Method comprises: (1) treating substrate with dispersion of photocatalytic particles; then (2) treating substrate with at least a siliconized compound selected from: (a) siliconates of formula $R-Si(OM)_m(OH)(3-m)$ (I); $R = 1-18$ hydrocarbon chain optionally substituted by halogen, amino, ether, ester, epoxy, mercapto, cyano or (poly)glycol; $m = 0-3$, and $M =$ alkali metal, ammonium, phosphonium and/or condensation products of said siliconates; (b) polyorganosiloxanes of formula $M\alpha D\beta Q\delta(O\frac{1}{2}Ri)\iota$ (II); $M = Rii_3SiO\frac{1}{2}$; $D = Rii_2SiO\frac{2}{2}$; and $Q = SiO\frac{4}{2}$; in which $Rii = 1-8C$ alkyl or $6-12C$ aryl, arylalkyl, alkylaryl or alkoxyaryl in which the aryl group is optionally substituted by $1-4C$ alkyl or alkoxy; $\alpha \leq 0.1$, preferably ≤ 0.01 ; $\beta \leq 0.85$; $\delta \leq 0.1$; $\alpha + \beta + \delta = 1$; $Ri = 1-4C$ alkyl; and $\iota = 0.1-1.5$; and compounds of formula $M\alpha D\beta T\psi(O\frac{1}{2}Ri)\iota$ (III) in which $\alpha \leq 0.2$, preferably ≤ 0.01 ; $\beta \leq 0.60$; $\psi \leq 0.3$.

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